3R - 146

GENERAL CORRESPONDENCE

YEAR(S):
1997-1994

EL PASO
FIELD SERVICES

November 5, 1997

Certified Mail
Return Receipt Nos. P 532 649 088
P 532 649 089

RECEIVED
NOV 1 1 1997
Environmental Bureau
Oil Conservation Division

Mr. William C. Olson
New Mexico Oil Conservation Division
2040 S. Pacheco
Santa Fe, NM 87504

Re: Request for Closure of Eleven Groundwater Locations

Dear Mr. Olson:

I have enclosed closure packages for eleven groundwater locations that were identified during our pit closure project. El Paso Field Services (EPFS) hereby requests your review and approval for closure of these sites.

I have included a summary listing of the eleven locations. If you have any questions regarding this information, please call me at 505/599-2141.

Sincerely,

Sandra D. Miller
Environmental Manager

xc: Mr. Bill Liesse, BLM w/o enclosures
Mr. Denny Foust, NMOCD - Aztec w/enclosures

Groundwater Locations
Request for Closure, 11/97

Meter/Line #	Location/Line Name	LTR	Sec	TN	RG	Land Type
74943	NM COM G1	P	36	30	10	1 - State
LD102	2C-22 #1 LINE DRIP	N	35	24	06	2 - Federal
94180	SALAZAR G 34-1	K	34	25	06	2 - Federal
89230	JOHNSTON FEDERAL #3A	I	12	30	09	2 - Federal
73079	Mae Gail Com #1	E	24	29	11	4 - Fee
70862	MCGRATH #1	F	07	30	11	4 - Fee
93156	MARY ACKROYD #1	J	18	30	11	4 - Fee
93828	JACQUEZ #3	E	25	30	09	4 - Fee
94984	ANDERSON GAS COM A#1 PC	C	28	29	10	4 - Fee
93296	GALLEGOS CANYON UNIT 188E	B	30	29	12	4 - Fee
93462	GALLEGOS CANYON UT 145 E	D	26	29	12	4 - Fee

filed individually in case files

EL PASO
FIELD SERVICES

Bill Olson
New Mexico Oil Conservation Commission
2040 South Pacheco Street
Santa Fe, New Mexico 87505

Date: June 2, 1997

Subject: Semi-Annual El Paso Field Services Pit Project Groundwater Report

Mr. Olson,

El Paso Field Services (EPFS) has encountered groundwater at various locations while investigating and or remediating exempt hydrocarbon unlined pits. The enclosed list includes all locations which are in this category. Please find enclosed, the locations and status of each individual pit.

These pits are being remediated according to the "EPFS Remediation Plan for Groundwater Encountered During Pit Closure Activities" dated November 29,1995.

EPFS requests that future reports for this project be submitted on a yearly basis to begin December 1, 1997 which will include soil boring logs, monitoring well completion diagrams, analytical data, groundwater elevation data, any risk analysis and type of remediation method.

For questions regarding this report please contact Ricky Cosby at (505)599-2158.

Ricky D. Cosby
Compliance Specialist

cc: Denny Foust - Aztec District

Location/Line Name	LTR	Sec	TN	RG	Monitor Well Status	Status	Depth to GW	Product Level
MCGRATH #1	F	07	30	11	+1	GW encountered during drilling activities, MW results below standards, Develop Closure Plan	17'	No
Mae Gail Com #1	E	24	29	11		PZ1 in center of pit below standards. All other samples below standards. Develop Closure Plan	0.5'-6'	No
NM COM G1	P	36	30	10		MW1 was removed during site re-excavation, PZ1 installed with samples below standards. Develop Closure Plan.	17'-18'	No
MARY ACKROYD #1	J	18	30	11		Geoprobe samples all below standards. Develop Closure Plan.	3'-6'	No
JACQUEZ #3	E	25	30	09	-1	MW1 removed during re-excavation. 3 piezos and 1 probehole around pit all below standards. Operator has placed a production tank over the pit location. Develop Closure Plan.	13'-15'	No
SALAZAR G 34-1	K	34	25	06	+1	MW1 results all below standards. Develop Closure Plan.	35'	No
ANDERSON GAS COM A#1 PC	C	28	29	10		PH4 in center of pit is below standards. All of PH's around pit below standards. Develop Closure Plan.	5'-9'	No
GALLEGOS CANYON UT 145 E	D	26	29	12		PZ1 in center of pit below standards.	6'-9'	No
JOHNSTON FEDERAL #3A	I	12	30	09	+1	Develop Closure Plan. 4 clean quarters.	67.5'	No
FLORANCE #1	J	08	30	11	+1	MW1 installed 05/07/97. Develop and sample MW1.	14'	No
DE-NA-HAZ-ZA #1	D	18	26	08	+1	MW1 installed 05/06/97. Develop and sample MW1.	14'	No
Ramenta Et Al #1	J	13	27	09	+1	MW1 installed 05/06/97. Develop and sample MW1.	5'-9'	No
HAMMOND 41 A	O	25	27	08	+1	MW1 installed 05/05/97. Develop and sample MW1.	15'-24'	No
VALDEZ GAS UNIT A #1E CH	G	24	29	11	-1, +1	MW1 installed 05/07/97. Develop and sample MW1.	11'-12'	No

Location/Line Name	LTR	Sec	TN	RG	Monitor Well Status	Status	Depth to GW	Product Level
GALLEGOS CANYON COM A142E	G	25	29	12	+1	MW1 Developed and sampled 03/10/97. Evaluate Data.	13'	No
GALLEGOS CANYON UT D#160	I	27	29	12	+1	MW1 Developed and sampled 03/10/97. Evaluate Data.	19.1'	No
HARRINGTON #1	M	31	27	07	+1	MW1 Developed and sampled 04/02/97. Evaluate Data.	13'	No
Turner A1 "PM" (Pit #2)	G	34	31	11	+1	MW1 Developed and sampled 03/12/97. Evaluate Data.	2.3'--2.5'	No
TURNER #1A (Pit #1)	K	34	31	11	+1	Same as Above	5'	No
SAN JUAN 28-6 UNIT #79 MV	M	11	27	06	+1	MW1 Developed and sampled 04/14/97. Evaluate Data.	30'	No
KNIGHT #1	A	05	30	13	+4	Installed Oxegenate Socks 11/25/96. Geoprobe 02/25/97. Evaluate Data.	22'-25'	No
Ohio C. Govt. #3	P	26	28	11		Install MW1 and sample quarterly.	6'-16'	No
NICKLES #1	K	11	31	13	+1	MW1 Developed and sampled 03/28/97. Evaluate Data.	12'-15'	No
BUD-DOS-PAH #1	M	19	26	08		Soil Boring 02/19/97. Operator has placed a compressor over excavated pit area. Evaluate Data.	13'	No
SANCHEZ GAS COM B#1	G	28	29	10	+1	MW1 Developed and sampled 03/11/97. Evaluate Data.	6'-9'	No
GE-ELE-GU-LITH-E #2	L	07	26	08		Soil Boring 02/20/97. Operator has placed a compressor over excavated pit area. Evaluate Data.	13'	No
JOHN CHARLES #8	B	13	27	09	+1	MW1 Developed and sampled 03/13/97. Evaluate Data.	19'	No
CANDADO 23 MV	B	09	26	07	+1	MW1 Developed and sampled 04/16/97. Evaluate Data.	6'-9'	No

Location/Line Name	LTR	Sec	TN	RG	Monitor Well Status	Status	Depth to GW	Product Level
GALLEGOS CANYON UNIT 188E	B	30	29	12	+1	MW1 Developed and sampled 04/03/97. Evaluate Data.	3'-5'	No
JOHNSON #1E	P	21	31	13	+1	MW1 Developed and sampled 03/28/97. Evaluate Data.	3'-9'	No
MILES FEDERAL #1E	N	05	26	07	+1	MW1 Developed and sampled 04/02/97. Evaluate Data.	13.5'-30'	No
TRUJILLO GAS COM A#1	C	28	29	10	+1	MW1 Developed and sampled 04/03/97. Evaluate Data.	3'-9'	No
ANDERSON GAS COM A#1 CH	C	28	29	10	+1	MW1 Developed and sampled 03/11/97. Evaluate Data.	5'-9'	No
TRUNK D LINE DRIP (LOOPD8)	F	20	28	08	+1	MW1 Developed and sampled 03/31/97. Evaluate Data.	10.8'-24'	No
K-31 LINE DRIP	N	16	25	06	+1	MW1 Developed and sampled 04/16/97. Evaluate Data.	18'-24'	No
K-17 LINE DRIP	C	26	27	08	+1	MW1 Developed and sampled 03/31/97. Evaluate Data.	17.8'-27'	No
TRUNK 2B DRIP X-1	J	01	27	11	+1	MW1 Developed and sampled 03/11/97. Evaluate Data.	6'-10'	No
Trujillo Gas Com #1 PC	M	21	29	10		Install MW1	4'	No
OHIO C GOVERNMENT #3 TD	P	26	28	11		Install MW1	6'-16'	No
LINDRITH B #24	N	09	24	03		Install MW1	21'-27'	No
K - 51 Line Drip	A	34	26	06		Install MW1	10'	No
Mesa CPD	C	04	29	14	+1	Install well points around pit and sample. MW1 needs 3 more clean quarters.	3'-6.5'	No
STANDARD OIL COM #1	N	36	29	09	+1	Install well points on four sides of pit to establish gradient.	20.89'	No
W.D. HEATH B#5	M	31	30	09	+1	Install well points on four sides of pit to establish gradient.	30'-36'	No
CANYON LARGO UNIT 304	C	11	24	06	+1	Install downgradient well points and sample.	17.5'-18'	No

Location/Line Name	LTR	Sec	TN	RG	Monitor Well Status	Status	Depth to GW	Product Level
K-27 LINE DRIP	E	04	25	06	+ 1	Establish gradient with well points.	40'	No
LAT 0-21 LINE DRIP	O	12	30	09	+ 1	Establish gradient with well points.	33'-36'	No
Trunk D loop Line Drip	I	33	28	08	+ 1	Establish gradient with well points.	33'-36'	No
Bisti Flare Pit	C	21	12	26		Establish GW gradient	15'	No
LAT L-40 LINE DRIP	H	13	28	04	+ 1	Install downgradient well points and sample.	40'	No
HAMNER #9	A	20	29	09	+ 1	Establish gradient with well points.	29'-31'	No
GARTNER LS #7	K	26	30	08		NMOCD Closure Approved	NA	No
HAMMOND FED #1	L	25	27	08	+ 1	NMOCD Closure Approved	NA	No
BURROUGHS COM #1	H	36	27	08		NMOCD Closure Approved	NA	No
CLEVELAND #6	B	21	27	09	+ 1	NMOCD Closure Approved	NA	No
CHARLEY PAH 4	K	12	27	09		NMOCD Closure Approved	NA	No
GRACE PEARCE #1	O	22	29	11		NMOCD Closure Approved	NA	No
HAMMOND #7	G	26	27	08		NMOCD Closure Approved	NA	No
ONA MCGEE #1	P	04	30	11		NMOCD Closure Approved	NA	No
CUTLER #2	A	14	24	06		NMOCD Closure Approved	NA	No
LINDRITH UNIT #23	D	09	24	03		NMOCD Closure Approved	NA	No
GREEN COM #1	E	36	29	09		NMOCD Closure Approved	NA	No
HAMMOND FED #5	D	25	27	08	+ 1	NMOCD Closure Approved	NA	No
FLORA VISTA #1	F	22	30	12		NMOCD Closure Approved	NA	No
MARSHALL B #1J	O	14	27	09		NMOCD Closure Approved	NA	No
HAMMOND #92	O	25	27	08		NMOCD Closure Approved	NA	No
PRICE #3	A	15	28	08		NMOCD Closure Approved	NA	No

Location/Line Name	LTR	Sec	TN	RG	Monitor Well Status	Status	Depth to GW	Product Level
KRAUSE WN FEDERAL #1E	C	32	28	11		NMOCD Closure Approved	NA	No
CANYON LARGO UNIT #298	A	03	24	06		NMOCD Closure Approved	NA	No
ARGO #1E	N	18	27	10		NMOCD Closure Approved	NA	No
CANYON LARGO UNIT #302	J	03	24	06		NMOCD Closure Approved	NA	No
FEDERAL 6 #32 CH	G	06	26	07		NMOCD Closure Approved	NA	No
SANCHEZ GAS COM C#1	A	28	29	10		NMOCD Closure Approved	NA	No
VALDEZ #2	G	24	29	11	-1	NMOCD Closure Approved	NA	No
FEDERAL R #2	P	15	27	08	+1	NMOCD Closure Approved	NA	No
CANYON LARGO UNIT #336	C	24	25	06		NMOCD Closure Approved	NA	No
CANDELARIA GAS COM C #1	C	27	29	10		NMOCD Closure Approved	NA	No
HOWELL #3	C	03	27	08		NMOCD Closure Approved	NA	No
LAT 2C-55 LINE DRIP	F	17	25	07	+1	NMOCD Closure Approved	NA	No
HORTON 1-E	H	28	31	09	+1	MW1 above B standards. Inject nutrient slurry in corners of pit.	5.3'	No
LAT 3B-39	M	10	29	09	+1	MW1 above B standards. Inject nutrient slurry in corners of pit.	31'-36'	No
JOHNSTON FEDERAL #4	H	33	31	09	+3	Determine Remedial Design Options.	48.94'--50.38'	Yes
STATE GAS COM N #1	H	16	31	12	+4	Determine Remedial Design Options.	75.66'--76.90'	Yes
COLDIRON COM A#1	K	02	30	11	+1	Determine Remedial Design Options.	35.4'	Yes
JOHNSTON FEDERAL #6A	F	35	31	09	+4	Determine Remedial Design Options.	40'-44.6'	Yes
JAMES F. BELL #1E	P	10	30	13	+4	Determine Remedial Design Options.	23.5'-24.5'	Yes
CANADA MESA #2	I	24	24	06	+1	Determine Remedial Design Options.	30'	Yes

Location/Line Name	LTR	Sec	TN	RG	Monitor Well Status	Status	Depth to GW	Product Level
FIELDS A #7A	E	34	32	11	+4	Confirm groundwater gradient. Initiate product removal from MW4.	21.8'-28.8'	Yes
FOGELSON 4-1 COM #14	P	04	29	11	+1	Re-excavate site. Evaluate operators open pits as sources of contamination.	31'-36'	No
SANDOVAL GAS COM A 1A	C	35	30	09	+1	Refusal with Geoprobe. Re-excavate pit and re-install MW1.	35'	No
MILES FEDERAL 1A (CH)	F	05	26	07	+1	Evaluate Data. Sandstone refusal at 25'.	29'	Yes
SHEETS #2	H	28	31	09	+4	Sample Quarterly. Steady drop in B analysis through 4 quarters.	46.3'--50.31'	No
JENNAPAH #1	H	36	28	09	+1	Sample Quarterly. Develop and Sample MW1 03/13/97.	20'	No
FLORANCE C LS 7	F	30	28	08	+1	Sample Quarterly. Need 2 more clean quarters.	40'	No
GRAHAM #53	L	10	27	08	+1	Sample Quarterly. Need 3 more clean samples	28.33'	No
MILES FEDERAL 1 A MV	F	05	26	07	+1	Sample Quarterly. Need 2 more clean quarters.	27.8'	No
LAT. H-37 DRIP Y-3	F	01	31	13	+4	Sample Quarterly. Remove socks. 4 clean quarters with ORB socks.	24.5'-25'	No
2C-22 #1 LINE DRIP	N	35	24	06	+1	Develop Closure Plan. 4 clean quarters.	28.8'	No
2C-22 #3 LINE DRIP	G	13	24	06	+1	Sample Quarterly. Need 3 more clean quarters.	14'-24'	No
2C - 45 Line Drip	P	13	25	06	+1	Sample Quarterly. Need 3 more clean quarters.	42.2'	No
USSELMAN GAS COM #1	B	04	31	10	+1	Sample Quarterly. Need 2 more clean quarters	10'	No
Note:								
MW = Monitor Well								
PZ = Piezometer								
BH = Bore Hole								

Bill Olson

OIL CONSERVATION DIVISION
RECEIVED
'94 JUN 5 AM 8 58

El Paso Natural Gas Company

P. O. BOX 4990
FARMINGTON, NEW MEXICO 87499

June 10, 1994

Mr. Denny Foust
NM Oil Conservation Division
1000 Rio Brazos Road
Aztec, NM 87410

Dear Mr. Foust,

Enclosed is an update on those locations where EPNG has encountered groundwater during our pit remediation and closure project. The list represents the time period of 4/14/94 (project start) through 6/7/94. The twelve locations on the list is 3% of the total number of pits that have been closed through the above dates.

As we have discussed, EPNG will be informing you of what approach we will be taking regarding further action at these locations. If you have any questions regarding this information you may reach me at 599-2141.

Sincerely,

Sandra D. Miller

Sandra D. Miller
Sr. Environmental Scientist

RECEIVED
JUN 13 1994
OIL CON. DIV.
DIST. 3

SF 6/29/94

DATE CLOSED	METER CODE	LOCATION NAME	SEC. T. R.
4/26/94	71676	TURNER #1A	K34-31N-11W
4/27/94	93296	GALLEGOS CANYON UNIT #188E	B30-29N-12W
4/29/94	75220	SANCHEZ GAS COM B1	G28-29N-10W
4/30/94	94984	ANDERSON GAS COM A #1 PC	C28-29N-10W
5/1/94	94879	SANCHEZ GAS COM C1	A28-29N-10W
5/2/94	95136	TRUJILLO GAS COM A1	C28-29N-10W
5/3/94	93357	JOHNSON #1E	P21-31N-13W
5/3/94	95210	ANDERSON GAS COM A1 CH	C28-29N-11W
5/4/94	72387	GRACE PEARCE #1	O22-29N-11W
5/5/94	95726	CANDELARIA GAS COM C #1	C27-29N-10W
5/23/94	75323	GREEN COM #1	E36-29N-9W
6/2/94	93196	CANADO 23 CH	B9-29N-7W

3R - 146

REPORTS

DATE:

July 1997

SAN JUAN BASIN PIT CLOSURES
San Juan Basin, New Mexico

Pit Closure Report

July 1997

Prepared For

El Paso Field Services
Farmington, New Mexico

Project 17520

PHILIP ENVIRONMENTAL

Closure Checklist

Meter Code 94984

Summary	☑
Site Map	☑
Site Assessment Sheet	☑

Phase I Excavation Y

closure form	☑
soil analytical results	☑
soil chain-of-custody	☑
groundwater analytical results	☐
groundwater chain-of-custody	☐

Phase II Soil Boring ____

boring log	☐
soil analytical results	☐
soil chain-of-custody	☐
well installation form	☐
development form	☐
groundwater analytical	☐
groundwater chain-of-custody	☐

Phase III Excavation ____

closure form	☐
soil analytical results	☐
soil chain-of-custody	☐
groundwater analytical	☐
groundwater chain of-custody	☐

Recon/Geoprobe Y

groundwater analytical	☑
soil-gas analytical	☐

If item boxes are not checked they are not applicable

PHILIP ENVIRONMENTAL

Environmental Services Group
Southern Region

Anderson GC A #1
Meter Code 94984

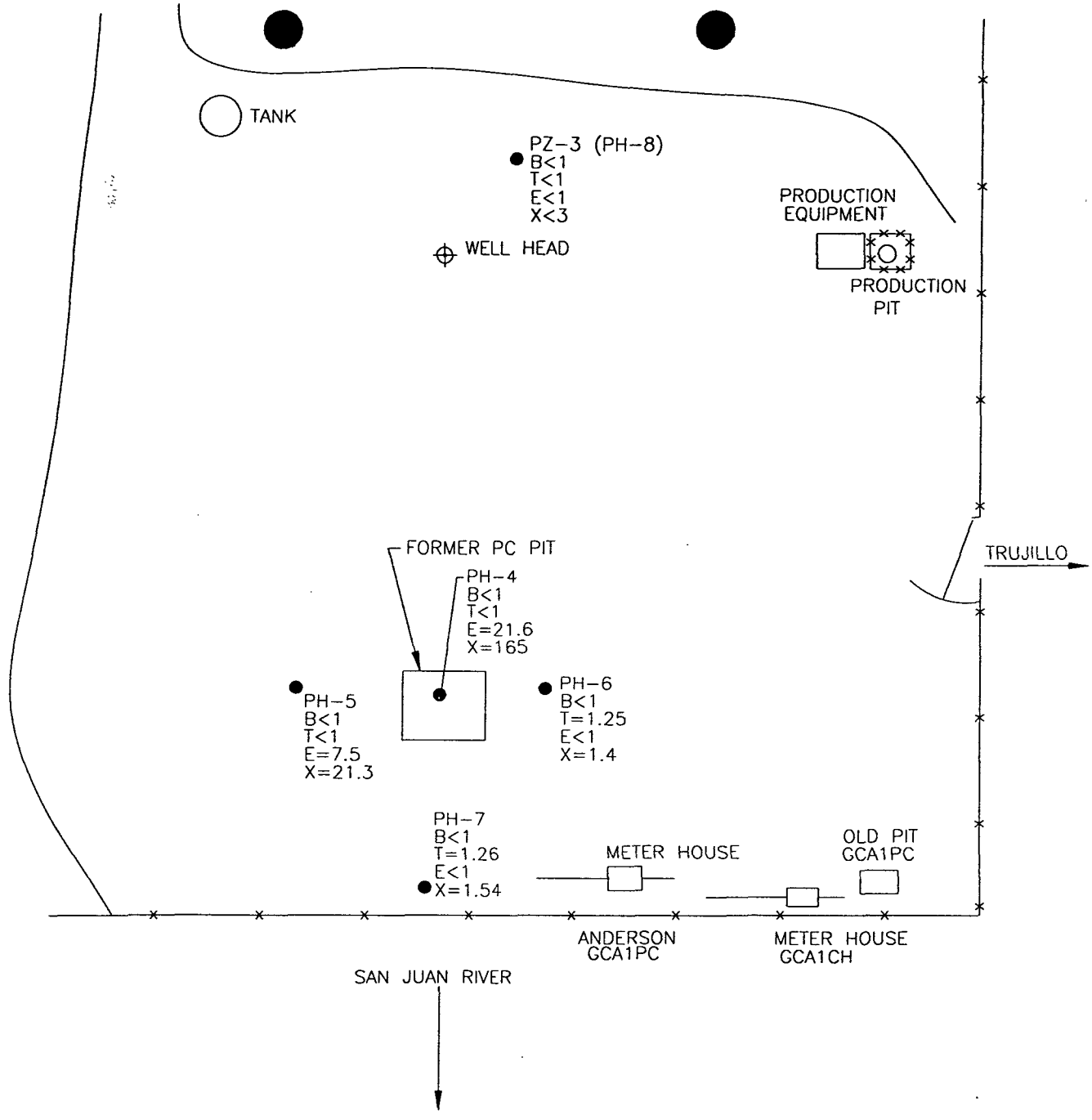
Pit was excavated to 8 feet beneath ground surface. The headspace soil reading from excavation bottom was 428 parts per million. Soil analytical were as follows; benzene - <0.5 mg/kg, total BTEX - 17.2 mg/kg, TPH - 445 mg/kg.

A Geoprobe investigation was completed and groundwater samples were collected. Groundwater analytical results were as follows:
PH-4: benzene - <1 ppb, toluene - <1 ppb, ethyl benzene - 21.6 ppb, total xylenes - 165 ppb.
PH -5: benzene - <1 ppb, toluene - <1 ppb, ethyl benzene - 7.5 ppb, total xylenes - 21.3 ppb.
PH -6: benzene - <1 ppb, toluene - 1.25 ppb, ethyl benzene - <1 ppb, total xylenes - 1.4 ppb.
PH-7: benzene - <1 ppb, toluene - 1.26 ppb, ethyl benzene - <1 ppb, total xylenes - 1.54 ppb.
PH -8: benzene - <1 ppb, toluene - <1 ppb, ethyl benzene - <1 ppb, total xylenes - <3 ppb.

This site is ready for closure based on the following:

- Excavation soil samples were below standards on benzene and total BTEX.
- Geoprobe groundwater samples were below standards up and downgradient of the former pit, and from the center of the former pit.

PHILIP ENVIRONMENTAL SERVICES CORPORATION
4000 Monroe Road ◦ Farmington, NM 87401
(505) 326-2262 ◦ Fax (505) 326-2388



LEGEND

B	BENZENE (ug/L)
T	TOLUENE (ug/L)
E	ETHYL BENZENE (ug/L)
X	XYLENE (ug/L)
ug/L	MICROGRAMS PER LITER
●PH-4	APPROXIMATE PROBEHOLE LOCATION AND NUMBER

NOT TO SCALE

*NOTE: Results are of groundwater samples only

PHILIP ENVIRONMENTAL

TITLE: Anderson GC A #1 P.C.

DWN:	DES.:
TMM	TMM
CHKD:	APPD:
CC	CC
DATE:	REV.:
7/16/97	0

PROJECT NO.: 13947
EPNG
SAN JUAN COUNTY, MN

Figure 1

COL 13947E-002

FIELD PIT SITE ASSESSMENT FORM

GENERAL

Meter: 94984 Location: ANDERSON GAS COM A #1 P.C.

Operator #: 0203 Operator Name: AMOCO P/L District: BLOOMFIELD

Coordinates: Letter: C Section 28 Township: 29 Range: 10

Or Latitude _____ Longitude _____

Pit Type: Dehydrator ___ Location Drip: X Line Drip: ___ Other: _____

Site Visit Date: 4.12.94 Run: 10 42

SITE ASSESSMENT

NMOCD Zone: (From NMOCD Maps)
- Inside Vulnerable Zone ☒
- Outside ☐

Land Type:
- BLM ☐
- State ☐
- Fee ☒
- Indian _____

Depth to Groundwater
- Less Than 50 Feet (20 points) ☒
- 50 Ft to 99 Ft (10 points) ☐
- Greater Than 100 Ft (0 points) ☐

Wellhead Protection Area :
Is it less than 1000 ft from wells, springs, or other sources of fresh water extraction? , or ; Is it less than 200 ft from a private domestic water source? ☐ YES (20 points) ☒ NO (0 points)

Horizontal Distance to Surface Water Body
- Less Than 200 Ft (20 points) ☒
- 200 Ft to 1000 Ft (10 points) ☐
- Greater Than 1000 Ft (0 points) ☐

Name of Surface Water Body SAN JUAN RIVER

(Surface Water Body : Perennial Rivers, Major Wash, Streams, Creeks, Irrigation Canals, Ditches, Lakes, Ponds)

TOTAL HAZARD RANKING SCORE: 40 POINTS

REMARKS

Remarks : THREE PITS ON LOCATION. WILL CLOSE TWO OF THEM. PITS ARE DRY. LOCATION HAS A CH AND PC SIDE. IT IS LOCATED NEXT TO THE SAN JUAN RIVER.

Phase I Excavation

FIELD PIT EMEDIATION/CLOSURE FO. M

GENERAL

Meter: 94984 Location: ANDERSON GAS COM A #1 P.C.

Coordinates: Letter: C Section 28 Township: 29 Range: 10

Or Latitude _____ Longitude _____

Date Started : 4/29/94 Area: 10 Run: 42

FIELD OBSERVATIONS

Sample Number(s): KP #8 _____ _____ _____

Sample Depth: 8' Feet

Final PID Reading 428 PID Reading Depth 8' Feet

	Yes	No		
Groundwater Encountered	[X] (1)	[ ] (2)	Approximate Depth	8' Feet

CLOSURE

Remediation Method :

Excavation	[X] (1)	Approx. Cubic Yards 35
Onsite Bioremediation	[ ] (2)	
Backfill Pit Without Excavation	[ ] (3)	

Soil Disposition:

Envirotech	[ ] (1)	[X] (3)	Tierra
Other Facility	[ ] (2)	Name:	_____

Pit Closure Date: 4/29/94 Pit Closed By: B.E.I

REMARKS

Remarks : Some LINE markers ON LOCATION HIT ground WATER 9' TAKE SAMPLE. WAITING FOR Phone Call TO close up Location. Alton JAMES MAKING Call. Alton JAMES got A hold OF Bill OLSON OCD. OKAYed Closed Pit.

Signature of Specialist: Kelly Padilla

(SP3191) 04/07/94

EL PASO FIELD SERVICES

FIELD SERVICES LABORATORY
ANALYTICAL REPORT
PIT CLOSURE PROJECT

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	KP8	945048
MTR CODE | SITE NAME:	94984	Anderson Gas Com A#1
SAMPLE DATE | TIME (Hrs):	4/29/94	1300
PROJECT:	Phase I ~~Drilling~~ Excavation	
DATE OF TPH EXT. | ANAL.:	5/2/94	5/2/94
DATE OF BTEX EXT. | ANAL.:	5/5/94	5/9/94
TYPE | DESCRIPTION:	VC	Coarse brown sand

Field Remarks: _____

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	<0.50	MG/KG	20	D		
TOLUENE	<0.50	MG/KG	20	D		
ETHYL BENZENE	1.20	MG/KG	20	D		
TOTAL XYLENES	16.0	MG/KG	20	D		
TOTAL BTEX	17.2	MG/KG				
TPH (418.1)	445	MG/KG			2.26	28
HEADSPACE PID	428	PPM				
PERCENT SOLIDS	78.1	%				

-- TPH is by EPA Method 418.1 and BTEX is by EPA Method 8020 --

The Surrogate Recovery was at 45.0 for this sample All QA/QC was acceptable.

The "D" qualifier indicates reported result for this analyte is calculated based on a secondary dilution factor.

Sample analyzed by ATI.
Surrogate recovery was outside ATI limit due to matrix interference

DF = Dilution Factor Used

Approved By: John Fowler INGVZPIT.XLS Date: 5/21/94

El Paso Natural Gas Company

CHAIN OF CUSTODY RECORD

Page 1 of 1

PROJECT NUMBER	PROJECT NAME	SAMPLERS: (Signature)	DATE
	Pit Closure Project # 24324	Kelly Pachella	4/29/94

	LAB ID	DATE	TIME	MATRIX	SAMPLE NUMBER	TOTAL NUMBER OF CONTAINERS	SAMPLE TYPE	REQUESTED ANALYSIS: TPH EPA 418.1	BTEX EPA 8020				SCA #	REMARKS
74	5047	4/29/94	1015	Soil	KP #7	1	VG	X	X				5	GW at 8'
74	5048	4/29/94	1300	Soil	KP #8	1	VG	X	X				6	GW at 8'
74	5049	4/29/94	1326	Soil	KP #9	1	VG	X	X				7	GW at 6'
74	5050	4/29/94	1445	Soil	KP #10	1	VG	X	X				8	

RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)
Kelly Pachella	4/29/94 1610	Susan T. Pope 3°F	Susan T. Pope	5/2/94 1005	
RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED FOR LABORATORY BY: (Signature)
					M. Gonzales

REQUESTED TURNAROUND TIME:
☐ ROUTINE ☐ RUSH

CARRIER CO.

BILL NO.:

SAMPLE RECEIPT REMARKS

CHARGE CODE

RESULTS & INVOICES TO:

FIELD SERVICES LABORATORY
EL PASO NATURAL GAS COMPANY
P. O. BOX 4990
FARMINGTON, NEW MEXICO 87499

505-599-2144

FAX: 505-599-2261

White - Testing Laboratory Canary - EPNG Lab Pink - Field Sampler

FM 08 0565A (Rev. 03-9

RECON®/Geoprobe

SITE ACTIVITIES

21-Feb-97

Meter/Line #: 94984

Location/Line #: Anderson Gas Com A #1 PC

MW#:

Depth to GW:

Depth to Product:

Product Thickness:

Date: 10/21/96

Activity: Geoprobe

Comments: Installed 3 piezos on PC and CH well location. PZ1 just south of CH pit. PZ2 in center of PC pit. Also completed 6 probe holes.

EL PASO FIELD SERVICES

FIELD SERVICES LABORATORY
ANALYTICAL REPORT
PIT CLOSURE PROJECT

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	CMC215	947937
MTR CODE | SITE NAME:	95210/94984	Anderson GC #1
SAMPLE DATE | TIME (Hrs):	10/21/96	1350
PROJECT:	Geoprobe	
DATE OF BTEX EXT. | ANAL.:	10/23/96	10/23/96
TYPE | DESCRIPTION:	PH4 ~~Grab~~	~~PH4~~ Water

Field Remarks: _____

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			OF	Q		
BENZENE	<1	PPB				
TOLUENE	<1	PPB				
ETHYL BENZENE	21.6	PPB				
TOTAL XYLENES	165	PPB				
TOTAL BTEX	187	PPB				

–BTEX is by EPA Method 8020 –

The Surrogate Recovery was at 93.8 % for this sample All QA/QC was acceptable.

DF = Dilution Factor Used

Narrative:

_____

_____

roved By: John Fowler Date: 10/29/96

947934.XLS,10/25/96

EL PASO FIELD SERVICES

FIELD SERVICES LABORATORY
ANALYTICAL REPORT
PIT CLOSURE PROJECT

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	CMC216	947938
MTR CODE | SITE NAME:	95210/94984	Anderson GC #1
SAMPLE DATE | TIME (Hrs):	10/21/96	1415
PROJECT:	Geoprobe	
DATE OF BTEX EXT. | ANAL.:	10/23/96	10/23/96
TYPE | DESCRIPTION:	PHS ~~Grab~~	~~PHS~~ water

Field Remarks: _____

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS DF	Q		
BENZENE	<1	PPB				
TOLUENE	<1	PPB				
ETHYL BENZENE	7.50	PPB				
TOTAL XYLENES	21.3	PPB				
TOTAL BTEX	28.8	PPB				

–BTEX is by EPA Method 8020 –

The Surrogate Recovery was at 89.2 % for this sample All QA/QC was acceptable.
DF = Dilution Factor Used

Narrative:

Approved By: John Fowler Date: 10/29/96

947937.XLS,10/25/96

EL PASO FIELD SERVICES

FIELD SERVICES LABORATORY
ANALYTICAL REPORT
PIT CLOSURE PROJECT

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	CMC217	947939
MTR CODE | SITE NAME:	95210/94984	Anderson GC #1
SAMPLE DATE | TIME (Hrs):	10/21/96	1435
PROJECT:	Geoprobe	
DATE OF BTEX EXT. | ANAL.:	10/23/96	10/23/96
TYPE | DESCRIPTION:	PHG ~~Grab~~	~~PHG~~ water

Field Remarks: _____

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS DF	Q		
BENZENE	<1	PPB				
TOLUENE	1.25	PPB				
ETHYL BENZENE	<1	PPB				
TOTAL XYLENES	1.40	PPB				
TOTAL BTEX	2.65	PPB				

–BTEX is by EPA Method 8020 –

The Surrogate Recovery was at 93.1 % for this sample All QA/QC was acceptable.

DF = Dilution Factor Used

Narrative:

Approved By: John Tarin Date: 10/29/96

947938.XLS,10/25/96

EL PASO FIELD SERVICES

FIELD SERVICES LABORATORY
ANALYTICAL REPORT
PIT CLOSURE PROJECT

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	CMC218	947940
MTR CODE | SITE NAME:	95210/94984	Anderson GC #1
SAMPLE DATE | TIME (Hrs):	10/21/96	1550
PROJECT:	Geoprobe	
DATE OF BTEX EXT. | ANAL.:	10/23/96	10/23/96
TYPE | DESCRIPTION:	PH7 ~~Grab~~	~~PH7~~ water

Field Remarks: _____

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS DF	Q		
BENZENE	<1	PPB				
TOLUENE	1.26	PPB				
ETHYL BENZENE	<1	PPB				
TOTAL XYLENES	1.54	PPB				
TOTAL BTEX	2.80	PPB				

–BTEX is by EPA Method 8020 –

The Surrogate Recovery was at 92.3 % for this sample All QA/QC was acceptable.

DF = Dilution Factor Used

Narrative:

Approved By: John Taylor Date: 10/29/96

947938.XLS,10/25/96

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EL PASO FIELD SERVICES

FIELD SERVICES LABORATORY
ANALYTICAL REPORT
PIT CLOSURE PROJECT

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	CMC219	947941
MTR CODE | SITE NAME:	95210/94984	Anderson GC #1
SAMPLE DATE | TIME (Hrs):	10/21/96	1620
PROJECT:	Geoprobe	
DATE OF BTEX EXT. | ANAL.:	10/23/96	10/23/96
TYPE | DESCRIPTION:	PH8 ~~Grab~~	~~PH8~~ water

Field Remarks: _____

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS DF	Q		
BENZENE	<1	PPB				
TOLUENE	<1	PPB				
ETHYL BENZENE	<1	PPB				
TOTAL XYLENES	<3	PPB				
TOTAL BTEX	<6	PPB				

–BTEX is by EPA Method 8020 –

The Surrogate Recovery was at 92.3 % for this sample All QA/QC was acceptable.
DF = Dilution Factor Used

Narrative:

Approved By: John Tarda Date: 10/29/96

947939.XLS,10/25/96

El Paso Natural Gas Company

A 2343

CHAIN OF CUSTODY RECORD

Project No.	Project Name
16297	EPFS PITS

Samplers: (Signature) Cory Chavez

Date: 10/21/96

	Date	Time	Comp.	GRAB	Sample Number	Type and No. of Sample Containers	Preservation Technique	Requested Analysis: BTEX				Remarks
947934	10/21/96	1015		✓	CMC 212	2	HCL/4°C	✓				Anderson GC #/ 95210 94934 PH1 (6-c CMC 10/21/96
947935		1205		✓	CMC 213	2		✓				PH2
947936		1335		✓	CMC 214	2		✓				PH3
947937		1350		✓	CMC 215	2		✓				PH4
947938		1415		✓	CMC 216	2		✓				PH5
947939		1435		✓	CMC 217	2		✓				PH6
947940		1550		✓	CMC 218	2		✓				PH7
947941		1620		✓	CMC 219	2		✓				PH8
		—			TRIP BLANK	1	↓	✓				

Cory Chavez 10/21/96

RUSH TURNAROUND

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
Cory Chavez	10/21/96 1700	Cory Chavez	Cory Chavez	10/22/96 0757	
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
				10/22/96 0757	Marco Bonnetti
Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time	Remarks:	

Carrier Co:	Carrier Phone No.	Date Results Reported / by: (Signature)
Air Bill No.:		

San Juan Repro Form 71-55 A

EPFS

EL PASO FIELD SERVICES

QUALITY CONTROL REPORT
EPA METHOD 8020 - BTEX

Samples: 947934 - 947941 and 960875 - 960879

QA/QC for 10/23/96 Sample Set

LABORATORY CALIBRATION CHECKS / LABORATORY CONTROL SAMPLES:

SAMPLE NUMBER ICV LA-52589 50 PPB	TYPE	EXPECTED RESULT PPB	ANALYTICAL RESULT PPB	%R	ACCEPTABLE RANGE	YES	NO
Benzene	Standard	50.0	54.8	110	75 - 125 %	X	
Toluene	Standard	50.0	53.3	107	75 - 125 %	X	
Ethylbenzene	Standard	50.0	53.1	106	75 - 125 %	X	
m & p - Xylene	Standard	100	101	101	75 - 125 %	X	
o - Xylene	Standard	50.0	53.6	107	75 - 125 %	X	

SAMPLE NUMBER LCS LA-45476 25 PPB	TYPE	EXPECTED RESULT PPB	ANALYTICAL RESULT PPB	%R	ACCEPTABLE RANGE	YES	NO
Benzene	Standard	25.0	28.3	113	39 - 150	X	
Toluene	Standard	25.0	27.5	110	46 - 148	X	
Ethylbenzene	Standard	25.0	27.6	110	32 - 160	X	
m & p - Xylene	Standard	50.0	51.3	103	Not Given	X	
o - Xylene	Standard	25.0	27.9	112	Not Given	X	

SAMPLE NUMBER CCV LA-52589 50 PPB	TYPE	EXPECTED RESULT PPB	ANALYTICAL RESULT PPB	%R	ACCEPTABLE RANGE	YES	NO
Benzene	Standard	50.0	51.6	103	75 - 125 %	X	
Toluene	Standard	50.0	50.8	102	75 - 125 %	X	
Ethylenzene	Standard	50.0	50.8	102	75 - 125 %	X	
m & p - Xylene	Standard	100	97.2	97.2	75 - 125 %	X	
o - Xylene	Standard	50.0	51.2	102	75 - 125 %	X	

SAMPLE NUMBER CCV LA-52589 50 PPB	TYPE	EXPECTED RESULT PPB	ANALYTICAL RESULT PPB	%R	ACCEPTABLE RANGE	YES	NO
Benzene	Standard	50.0	42.1	84.2	75 - 125 %	X	
Toluene	Standard	50.0	41.0	82.0	75 - 125 %	X	
Ethylbenzene	Standard	50.0	40.9	81.8	75 - 125 %	X	
m & p - Xylene	Standard	100	77.4	77.4	75 - 125 %	X	
o - Xylene	Standard	50.0	41.2	82.4	75 - 125 %	X	

arrative: Acceptable.

QUALITY CONTROL REPORT
EPA METHOD 8020 - BTEX
Samples: 947934 - 947941 and 960875 - 960879

LABORATORY DUPLICATES:

SAMPLE ID 947935	TYPE	SAMPLE RESULT PPB	DUPLICATE RESULT PPB	RPD	ACCEPTABLE RANGE	YES	NO
Benzene	Matrix Duplicate	1.28	1.08	16.9	+/- 20 %	X	
Toluene	Matrix Duplicate	2.34	2.37	1.27	+/- 20 %	X	
Ethylbenzene	Matrix Duplicate	16.5	15.9	3.70	+/- 20 %	X	
m & p - Xylene	Matrix Duplicate	82.6	80.1	3.07	+/- 20 %	X	
o - Xylene	Matrix Duplicate	3.04	2.95	3.01	+/- 20 %	X	

Narrative: Acceptable.

LABORATORY SPIKES:

SAMPLE ID 2nd Analysis 947935	SPIKE ADDED PPB	SAMPLE RESULT PPB	SPIKE SAMPLE RESULT PPB	%R	ACCEPTABLE RANGE	YES	NO
Benzene	50	1.28	53.8	105	75 - 125 %	X	
Toluene	50	2.34	55.9	107	75 - 125 %	X	
Ethylbenzene	50	16.5	65.8	98.6	75 - 125 %	X	
m & p - Xylene	100	82.6	175	92.4	75 - 125 %	X	
o - Xylene	50	3.04	52.4	98.7	75 - 125 %	X	

Narrative: Acceptable

ADDITIONAL ANALYTICAL BLANKS:

AUTO BLANK	SOURCE	PPB	STATUS
Benzene	Boiled Water	<1.0	ACCEPTABLE
Toluene	Boiled Water	<1.0	ACCEPTABLE
Ethylbenzene	Boiled Water	<1.0	ACCEPTABLE
Total Xylenes	Boiled Water	<3.0	ACCEPTABLE

Narrative: Acceptable.

SOIL VIAL BLANK	SOURCE Lot MB1461	PPB (Analyzed with this set)	STATUS
Benzene	Vial + Boiled Water	<1.0	ACCEPTABLE
Toluene	Vial + Boiled Water	<1.0	ACCEPTABLE
Ethylbenzene	Vial + Boiled Water	<1.0	ACCEPTABLE
Total Xylenes	Vial + Boiled Water	<3.0	ACCEPTABLE

Narrative: Acceptable.

CONTAMINATION CARRYOVER CHECK	SOURCE	PPB (Three analyzed with this set)	STATUS
Benzene	Vial + Boiled Water	<1.0	ACCEPTABLE
Toluene	Vial + Boiled Water	<1.0	ACCEPTABLE
Ethylbenzene	Vial + Boiled Water	<1.0	ACCEPTABLE
Total Xylenes	Vial + Boiled Water	<3.0	ACCEPTABLE

Narrative: Acceptable.

Reported By: Mda Approved By: John Zach Date: 10/29/96